

MATERIAL SAFETY DATA SHEET

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Issuing date 2013-09-10 Revision Date 2013-09-10 Version 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: X-OMAT Developer Starter

KODAK X-OMAT Developer Starter

Product code: 1332642

Supplier Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608

Emergency telephone number

CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

For other information contact: 800-328-2910

Product Use: Photographic chemical. Restricted to professional users.

HAZARDS IDENTIFICATION

Warning!

Emergency Overview

May cause central nervous system depression

Physical state liquid Odor Odorless Color colorless

HMIS Health Hazard - 1 Flammability - 0 Physical - 0 Hazard

Potential Health Effects

Eyes May cause slight irritation.

Skin Substance may cause slight skin irritation.

Inhalation Expected to be a low hazard for recommended handling. May cause irritation of respiratory

tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause

central nervous system effects.

Chronic Effects

Chronic toxicity Effects expected to be similar to those seen acutely.

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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	Chemical Name	CAS-No	Weight %
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Sodium bromide	7647-15-6	10-15	
Non-Hazardous			
Chemical Name	CAS-No	Weight %	

4. FIRST AID MEASURES

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention

immediately if irritation persists.

Skin contact Wash off immediately with plenty of water. If skin irritation persists, call a physician .

Inhalation Move to fresh air in case of accidental inhalation of vapors. Get medical attention

immediately if symptoms occur.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth

to an unconscious person. Get medical attention.

Notes to physician Treat symptomatically.

FIRE-FIGHTING MEASURES

Flash point: > 93.400 °C

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable Extinguishing Media None.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and

vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard - 2 Flammability - 0 Stability - 0

ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with eyes. For personal protection see section 8.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand,

earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Other information See Section 12 for additional information.

7. HANDLING AND STORAGE

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Advice on safe handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure

adequate ventilation. Wash thoroughly after handling.

Technical measures/Storage

conditions

Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Occupational Exposure Controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

General Information These recommendations apply to the product as supplied.

Respiratory protectionNone required under normal usage. If exposure limits are exceeded or irritation is

experienced, NIOSH/MSHA approved respiratory protection should be worn.

Eye/Face Protection Safety glasses with side-shields.

Skin and body protectionWear suitable protective clothing.

Hand Protection Chemical resistant gloves. Avoid natural rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

ph 6.6

Flash point: > 93.400 °C

Boiling point/boiling range > 100 °C / >212 °F

Odor Odorless Color colorless

Autoignition temperature: No information available

Vapor Pressure 24 mbar @ 20 °C

Vapor density 0.6

Density No information available
Water Solubility completely soluble

Melting point/range: No information available

Specific Gravity 1.106

Bulk Density: No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Incompatible products Strong oxidizing agents.

Conditions to Avoid Heat.

Hazardous Decomposition Products Hydrogen bromide.

Hazardous Polymerization None under normal processing.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity - Product Information

Skin Substance may cause slight skin irritation.

Eyes May cause slight irritation.

Inhalation Expected to be a low hazard for recommended handling. May cause irritation of

respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May

cause central nervous system effects.

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90,000 mg/kg (Rat)		
Sodium bromide	3400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
hemical Name Other applicable information			
Sodium bromide		Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.	

Subchronic toxicity No information available

Chronic toxicity Effects expected to be similar to those seen acutely.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Target Organ Effects Gastrointestinal tract (GI), Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates

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Sodium bromide	5800 - 24000 mg/L EC50 96 h	LC50 24000 - 96000 mg/L Oryzias	EC50 5800 - 48000 mg/L 48 h
	(Scenedesmus pannonicus)	latipes 96 h LC50= 24000 mg/L	(Daphnia magna) EC50 5700 -
		Oryzias latipes 96 h LC50 16000 -	10800 mg/L 48 h (Daphnia magna)
		24000 mg/L Poecilia reticulata 96 h	
		LC50= 16000 mg/L Poecilia	
		reticulata 96 h LC50 15614 - 17428	
		mg/L Pimephales promelas 96 h	
		LC50> 1000 mg/L Lepomis	
		macrochirus 96 h LC50 0.054 -	
		0.081 mg/L Oncorhynchus mykiss	
		96 h LC50> 1000 mg/L	
		Oncorhynchus mykiss 96 h	

Persistence and degradability Not readily biodegradable

Bioaccumulation: - No information available

Mobility - No information available

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

DOT Not regulated

TDG Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

For transportation information, go to: http://ship.carestreamhealth.com.

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies

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PICCS Complies
AICS Complies
NZIOC Complies

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL Verson Existing and Evaluated Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA

This product does not contain any chemicals regulated under TSCA Section 4, Section 5(a), Section 8(a) or Section 8(d).

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

International Regulations

Mexico - Grade Slight risk, Grade 1

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16. OTHER INFORMATION

Disclaimer for Label

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

Warning!

- Contains:

Hazardous Components

Chemical Name	CAS-No	Weight %
Sodium bromide	7647-15-6	10-15

May cause central nervous system depression.

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Wash thoroughly after handling.

Additional information is given in the Material Safety Data Sheet.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text